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Technologies, Inc
Hazardous mine
opening project,
York Minine
District-phase II,
project no. DEO-

FINAL REPORT

HAZARDOUS MINE OPENING PROJECT YORK MINING DISTRICT - PHASE II PROJECT NO. DEQ-AMRB 94-005

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FINAL REPORT

HAZARDOUS MINE OPENING PROJECT YORK MINING DISTRICT - PHASE II PROJECT NO. DEQ-AMRB 94-005



FINAL REPORT

HAZARDOUS MINE OPENING PROJECT YORK MINING DISTRICT - PHASE II PROJECT NO. DEQ-AMRB 94-005

Prepared for:

Montana Department of Environmental Quality
Reclamation Division
Abandoned Mine Reclamation Bureau

Prepared by:

Maxim Technologies, Inc. P.O. Box 4699 1610 B Street Helena, Montana 59604



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1.0 INTRODUCTION

Hard rock mining has taken place in Montana since 1862 and was essentially unregulated from a reclamation standpoint for over one hundred years. As a result, thousands of unsecured shafts and adits are located in mining districts throughout the state. The purpose of the Hazardous Mine Opening (HMO) Project in the York Mining District was to abate some of the hazards associated with mine openings. This project was one of a continuing series of hazardous mine opening closure projects completed by the Montana Abandoned Mine Reclamation Bureau (AMRB).

1.1 PROJECT LOCATION

The hazardous mine openings included in this project are located in the York Mining District, Lewis and Clark County, Montana. The district is located in the Belt Mountains approximately 25 miles northeast of Helena, Montana near the small town of York (Figure 1). The York Mining District - Phase II Project included backfill closure of ninety-three (93) mine openings at 56 sites.

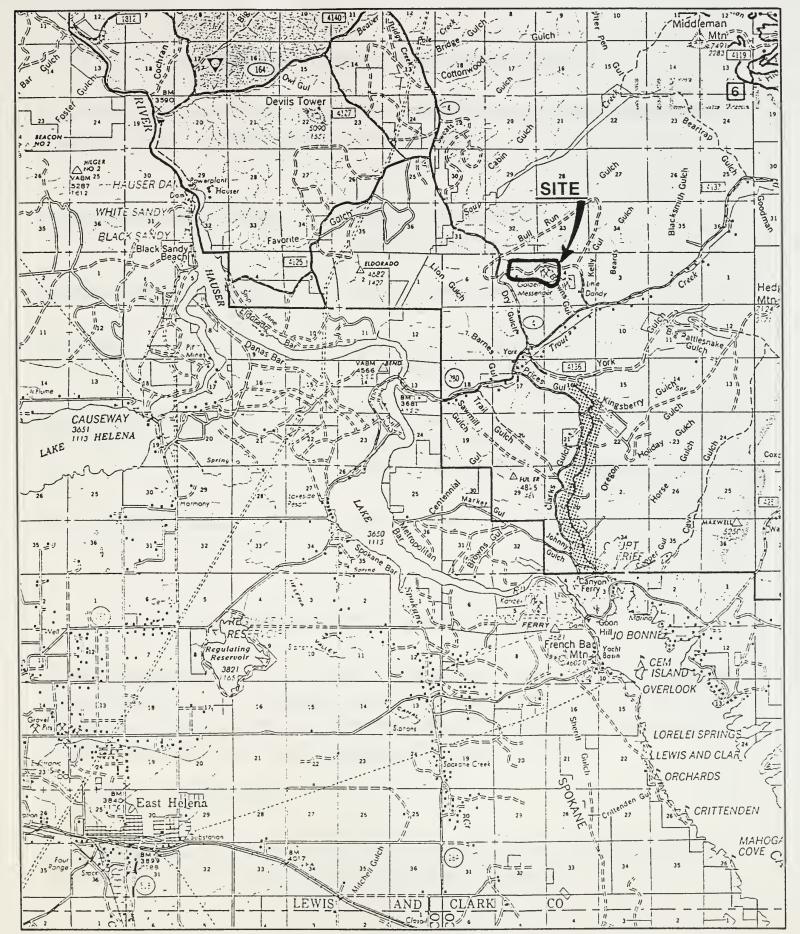
1.2 SITE DESCRIPTION

The sites included in the York Mining District - Phase II Project are located in or near residential or recreational areas, within historic areas, or close to public roads. All mine openings included in this project are considered hazardous to public safety. The shafts involved were deep enough to prevent unaided escape upon entry. Adits were accessible to the curious, exposing dangerous underground workings and unknown hazards.

1.3 PROJECT OBJECTIVES

The York Mining District - Phase II Project was designed and executed with the intent of eliminating accidental or unauthorized entry to mine openings that exposed unknown hazards at a number of abandoned hard rock mines. Sites were nominated for inclusion into the project based on the AMRB's non-coal inventory, a follow-up field inventory, and landowner consent. Work included in this project involved backfill closure of mine openings, prospect pits, or subsidence features; hand sealing adits; and, construction of four mounded earth road barriers (kelly humps).





From Helena National Forest Map

Location Map York Phase II Lewis and Clark County, Montana FIGURE 1



2.0 PROJECT PLANNING AND CONSTRUCTION

The following people/firms have contributed to the coordination, design, execution, and inspection of the York Mining District - Phase II Project:

Project Coordination & Design:

Maxim Technologies, Inc.

Helena, Montana

Engineering Plan Preparation:

Maxim Technologies, Inc.

Contractor:

Scott Construction Inc.

East Helena, Montana

Quality Control Inspection:

Maxim Technologies, Inc.

Ed Johnson, Project Inspector

Jeremiah B. Bowser, P.E., Project Engineer

AMRB Project Manager:

Dale Herbort

3.0 CHRONOLOGICAL LISTING OF EVENTS

Construction activities related to the York Mining District - Phase II Project commenced on July 10, 1995 and were completed on August 18, 1995. The contractor performed all construction activities according to contract specifications and within the contract period. The following section describes the sequence of events for the project.

3.1 PRE-BID CONFERENCE

A pre-bid conference and site showing was held on Friday, May 19, 1995 at the York Mining District. Twelve potential bidders attended the conference.



3.2 PROJECT BIDS

Montana Department of State Lands personnel publicly opened bids for the Hazardous Mine Opening Project York Mining District - Phase II on May 25, 1995. The three lowest bids are presented below. Complete bid tabulation results are presented in Appendix B.

 Scott Construction, Inc. 	\$ 57,139.25
--	--------------

♦ Coleman Construction \$ 59,194.00

Baxter Construction \$ 59,408.64

3.3 PROJECT CHRONOLOGY

The York Mining District - Phase II Project was completed during the summer of 1995. The following chronology presents the sequence of events that led to completion of the project.

Notice of Award:	June 29, 19	95
Notice of Award.	0 U1 C 20. 10	

Notice to Proceed: July 10, 1995

Construction Start-up: July 10, 1995

Certificate of Completion: April 15, 1996

Final Inspection: August 18, 1995

Final Acceptance: September 3, 1993



4.0 PROJECT CONSTRUCTION

4.1 DESCRIPTION OF PROJECT PLAN

The 93 mine openings included in this project were closed by a variety of means. The majority of the sites were closed using excavation equipment by backfilling the openings with waste rock available near the site of the opening. Twelve sites were located in an area referred to as Brown's Gulch. These sites were generally large subsidence features that required considerable clearing, grubbing, and backfilling. Several openings were closed using hand labor methods. All sites were seeded, fertilized, and mulched in accordance with contract specifications. Site locations and as-built drawings (Brown's Gulch Sites) are presented in Appendix A.

4.2 CONTRACTOR'S OPERATION

Scott Construction performed the work utilizing a crew of four full-time personnel supplemented by part-time laborers during the construction phase of the project. Lee Scott was the field superintendent. Two equipment operators and one laborer were utilized during the construction project. The Contractor used the following equipment:

- CAT 931 Track Loader
- D-6 Caterpillar Dozer
- Caterpillar 235 Excavator
- One Ton Four-Wheel Drive Flatbed Truck
- 2 1/2 Ton Stake Truck

The Contractor began work in the Brown's Gulch area on July 10, 1995. Clearing and grubbing involving primarily tree removal on 1.5 acres was accomplished prior to backfilling twelve mine openings and subsidence features. Initial surveys estimated approximately 8,190 cubic yards of material were necessary to adequately close the Brown's Gulch openings. Actual quantities, as determined by survey, showed that 5,947 cubic yards of material were actually used for backfill closure in the Brown's Gulch area. Seeding, fertilizing and mulching of each site was performed upon completion of final grading and seedbed preparation. Wood chips made from trees removed prior to backfilling were spread over disturbed areas as part of seedbed preparation.



Installation of two adit seals on July 15, 1995 completed operations in the Brown's Gulch area. The Contractor proceeded to backfill prospect pits, adits, shafts and trenches at the remainder of the sites included in the project. Each mine opening was seeded, fertilized, and mulched upon completion of backfilling and final grading.

5.0 PROJECT COSTS

5.1 PAYMENT REQUESTS

The total contract cost for the York Mining District - Phase II was \$47,310.58. One change order was written for the project (Appendix C). The original bid price was \$57,139.25 compared to the engineers' estimate of \$74,185.00. The primary difference between the original bid price and the contract total was the amount of backfill material used in the closure of mine openings in the Brown's Gulch area. Table 5-1 summarizes the approved payment requests issued for the project. Appendix D contains copies of the pay requests, the Certificate of Completion and Acceptance, and the Affidavit on Behalf of Contractor.

TABLE 5-1

PAYMENT REQUEST SUMMARY

YORK MINING DISTRICT - PHASE II

PAYMENT REQUEST NO.	DATE	AMOUNT
1	8-18-95	\$ 50,702.67
2	3-6-96	\$ <3,392.09>
Total Contract Ar	\$ 47,310.58	

5.2 PROJECT QUANTITIES AND COSTS

Table 5-2 contains a summary of project quantities and costs associated with each method of closure and the unit cost of each method or structure constructed.



SUMMARY OF PROJECT QUANTITIES AND COSTS

TABLE 5-2

SUMMARY OF PROJECT QUANTITIES AND COSTS YORK MINING DISTRICT – PHASE II

Closure Method	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1.0	\$ 2,500.00	\$ 2,500.00
Clearing and Grubbing	AC	1.5	\$ 475.00	\$ 712.50
Mine Closure	CY	9,368	\$ 4.25	\$ 39,814.00
Adit Seal	EA	2	\$ 350.00	\$ 700.00
Mounded Earth Road Barriers (kelly humps)	EA	4	\$ 175.00	\$ 700.00
Seed, Fert., & Mulch	AC	2.99	\$ 795.00	\$ 2,377.05
SubTotal				\$ 46,803.55
Allowance for Contractor's T	ax Paid			\$ 507.03
TOTAL COST				\$ 47,310.58

Note: LS = Lump Sum; AC = Acre; CY = Cubic Yard; EA = Each

5.3 COST ANALYSIS

Table 5-3 presents a cost analysis of project costs. Along with construction costs, this summary includes engineering costs such as site inventory, preparation of construction specifications, site survey, preparation of bid package and contract documents, construction inspection, contract administration, and preparation of a final report.



TABLE 5-3

COST ANALYSIS YORK MINING DISTRICT - PHASE II

ENGINEERING

Closure Design, Bid Package Preparation, and Survey Construction Inspection, Administration, and Final Report Preparation	\$ 10,043.37 \$ 11,331.68		
TOTAL ENGINEERING FEE	\$ 21,375.05		
TOTAL CONSTRUCTION COST	\$ 47,310.58		
TOTAL PROJECT COST	\$ 68,685.63		
Total Engineering Fee/Total Project Cost	31.1%		
Total Construction Cost/Total Project Cost	68.9%		
Construction Inspection Cost/Total Construction Cost	24.0%		
Engineering Design and Bid Package Preparation/Total Construction Cost	7.1%		
Total Number of Mine Openings Inventoried	114		
Total Number of Mine Openings Closed	93		
AVERAGE CONSTRUCTION CLOSURE COST PER MINE OPENING \$ 508.72			



6.0 PROJECT SUMMARY

6.1 PROJECT RECONCILIATION

Table 6-1 summarizes the differences between the reclamation closures specified in the contract bid document and those actually constructed. Table 6-1 is located in Appendix E and contains a listing of all the work specified in the contract documents reconciled with the work actually constructed at each site.

6.2 SITE CONDITIONS AFTER COMPLETION

Dale Herbort, the AMRB Project Coordinator, and Ed Johnson, Maxim's project inspector, performed a final inspection of the project on August 18, 1995. The closures completed during the project were constructed in general accordance with specifications contained in the Standard Construction Specifications for Abandoned Mine Reclamation and the bid document for the project.

6.3 MONITORING AND MAINTENANCE

Periodic monitoring for subsidence at sites backfilled during the project should be conducted to ensure adequacy of the fill. To minimize any liability to the State, all backfilled mine openings should be inspected on an annual basis for several years following completion of the project.

Revegetation success should be monitored for several years. Vegetation inspections should identify seeding failures on reclaimed sites and document species which are better suited to revegetate reclaimed sites. The presence or absence of weeds should also be documented to satisfy weed control obligations.

6.4 PHOTOGRAPHIC RECORD

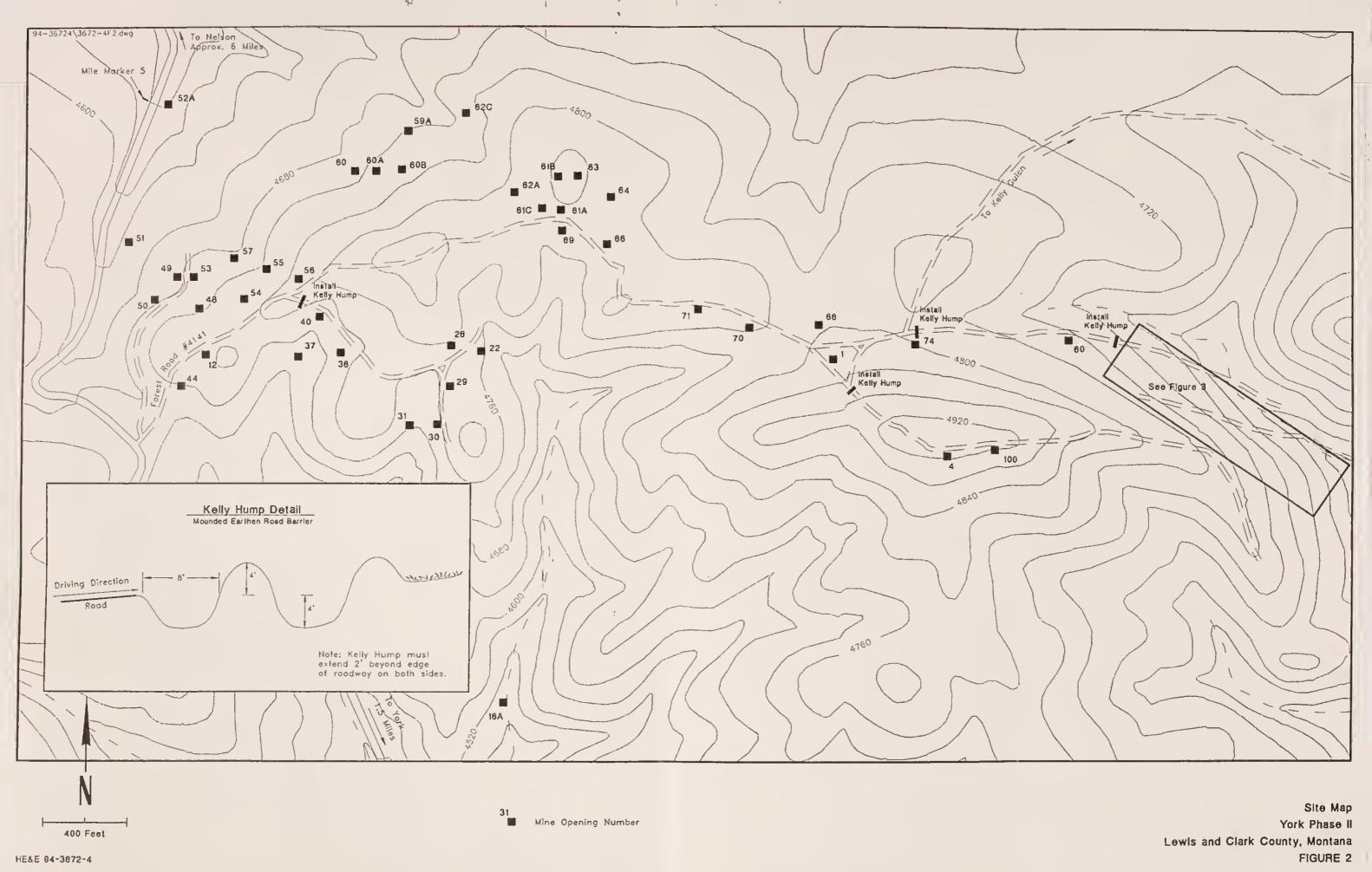
Print and slide photographs were taken of selected representative project mine openings before and after construction activities were completed. The photographic record also contains prints and slide photographs of work completed during closure. This photographic record is contained in Appendix G. The photographs are indexed by Problem Area (PA) numbers; a description of the photo can be found in the log presented at the beginning of Appendix G.



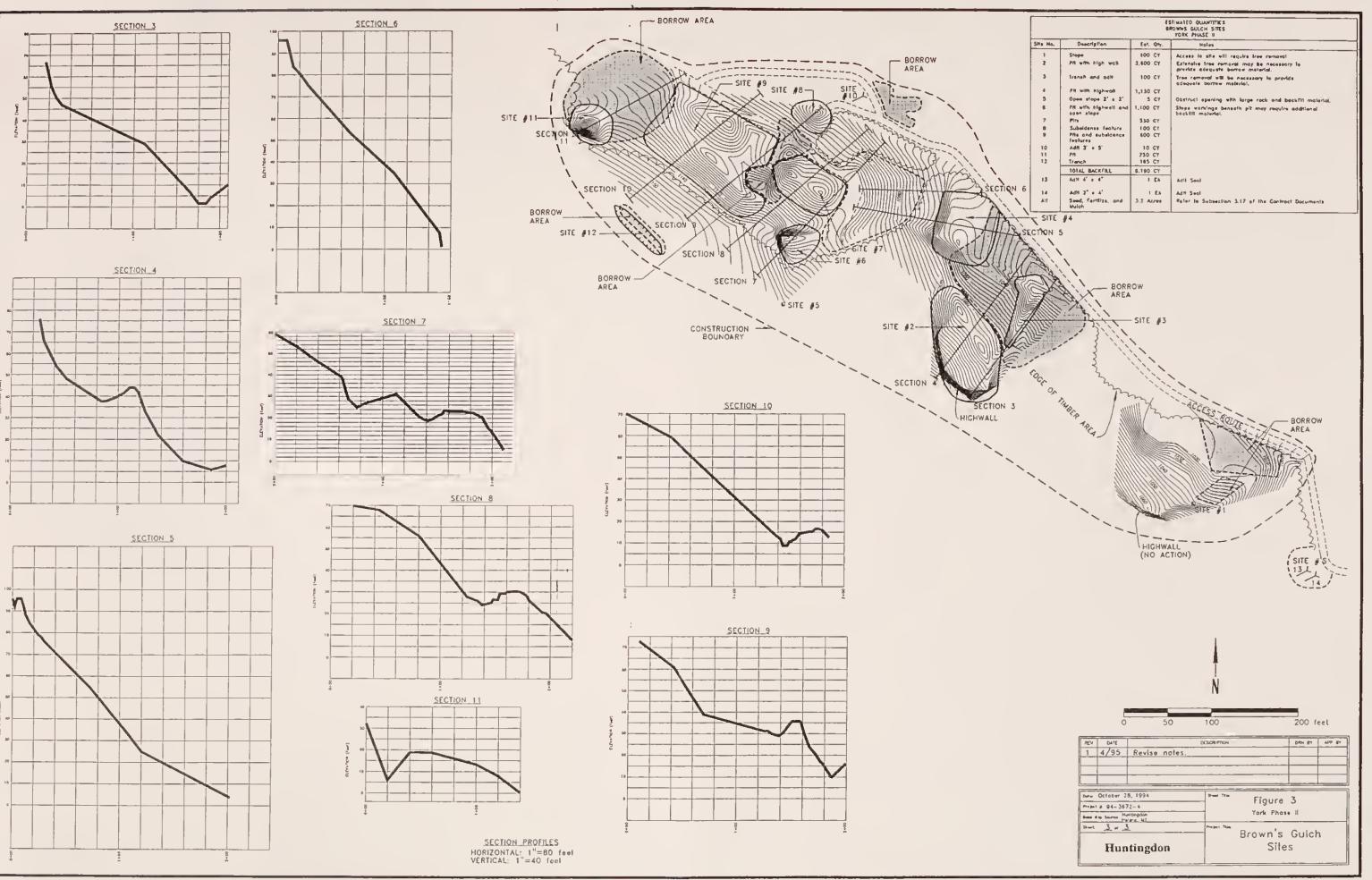
APPENDIX A

SITE MAPS AND AS BUILT DRAWING (BROWN'S GULCH SITES)
YORK MINING DISTRICT - PHASE II

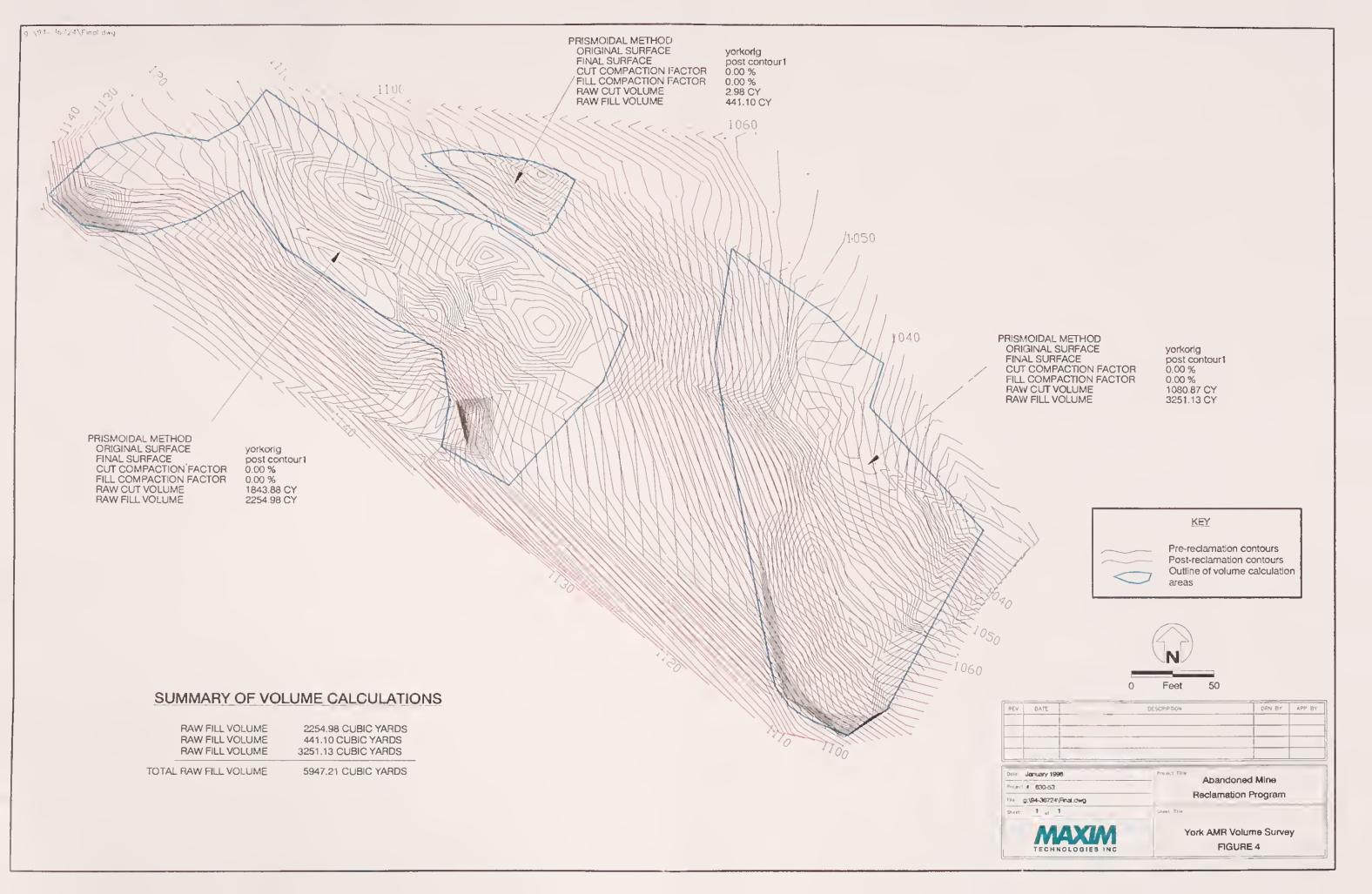














APPENDIX B

BID TABULATIONS

YORK MINING DISTRICT - PHASE II



HAZARDOUS MINE OPENING MAINTENANCE PROJECT YORK MINING DISTRICT - PHASE II - LEWIS & CLARK COUNTIES, MONTANA

BAXTER CONSTRUCTION		5,900.00	7,500.00	26,008.64	6,000.00	4,000.00	10,000.00	59,408.64
BAXTER CON		5900.00	8000.00	2.24	3000.00	1000.00	2500.00	
COLEMAN CONSTRUCTION		3,000.00	3,750.00	46,444.00	2,000.00	2,000.00	2,000.00	59,194.00
COLEMAN C		3000.00	2500.00	4.00	1000.00	200.00	500.00	
STRUCTION		2,500.00	712.50	49,346.75	700.00	700.00	3,180.00	57,139.25
SCOTT CONSTRUCTION		2500.00	475.00	4.25	350.00	175.00	795.00	
ENGINEER'S ESTIMATE	Total Price	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENGINEER	Unit Price	00.						
BID TABULATIONS	Description	Mobilization, Bonding and Insurance	Clearing and Grubbing	Mine Closure	Adit, Seal	Mounded Earth Road Barriers (Kelly Humps)	Seeding, Fertilizing and Mulching	
BID TAE	Unit	LS	УС	CY	EA	EA	AC	
	Estimated Quantity	1	1.5	11,611	2	4	. 4	
	Item Number	1.	2.	3.	4.	5.	6.	



HAZARDOUS MINE OPENING MAINTENANCE PROJECT YORK MINING DISTRICT - PHASE II - LEWIS & CLARK COUNTIES, MONTANA

		BID TA	BID TABULATIONS	ENGINEER'S	S'S ESTIMATE	MARQUIS EXCAVATING	CAVATING	CHIEF'S EXC	CHIEF'S EXCAVATING AND	DIAMOND	ž
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price			CONTRACTING	2	CONSTRUCTION	NO
	-	LS	Mobilization, Bonding and Insurance	00.	00.00	5977.00	5,977.00	9765.00	9,765.00	5000.00	6,000.00
2.	1.5	AC	Clearing and Grubbing		00.00	3000.00	4,500.00	2690.00	4,035.00	5400.00	8,100.00
3.	11,611	CY	Mine Closure		00.00	3.20	37,155.20	3.40	39,477.40	4.25	49,346.75
4.	2	EA	Adit Seal		00.00	2000.00	4,000.00	625.00	1,250.00	650.00	1,300.00
5.	4	EA	Mounded Earth Road Barriers (Kelly Flumps)		00.00	734.45	2,937.80	\$00.00	2,000.00	200.00	800.00
6.	4	AC	Seeding, Fertilizing and Mulching		0.00	1300.00	5,200.00	2410.00	9,640.00	1500.00	6,000.00
					00.00		59,770.00		66,167.40		70,546.75



HAZARDOUS MINE OPENING MAINTENANCE PROJECT YORK MINING DISTRICT - PHASE II - LEWIS & CLARK COUNTIES, MONTANA

m Estimated Quantity Unit Total Price RECLAMATION Price CONTRACTORS, INC Inbert Quantity Unit Description Unit Price 0.00 6800.00 5222.00 5222.00 Inbert Inbert AC Clearing and Grubbing 0.00 2000.00 3,000.00 6439.00 6439.00 Inbert AC Act Clearing and Grubbing 0.00 4,75 55,152.25 4,64 5 Inbert AC Adit Seal 0.00 450.00 900.00 571.00 571.00 A EA Mounded Earth Road Barriers (Kelly 0.00 250.00 1,000.00 48.00 A AC Seeding, Fertilizing and Mulching 0.00 2200.00 8,800.00 1982.00			BID TA	BID TABULATIONS	ENGINEER'S E	R'S ESTIMATE	ENVIRONMENTAL	INTAL	MCDANIEL & SONS	& SONS	MONTGOMERY	۲۲ د۲
1 LS Mobilization, Bonding and Insurance .00 0.00 6800.00 6,800.00 5222.00 1.5 AC Clearing and Grubbing 0.00 2000.00 3,000.00 6439.00 1.611 CY Mine Closure 0.00 4.75 55,152.25 4.64 5 2 EA Adit Seal Mounded Earth Road Barriers (Kelly 0.00 450.00 900.00 571.00 4 EA Mounded Earth Road Barriers (Kelly 0.00 250.00 1,000.00 48.00 4 AC Seeding, Fertilizing and Mulching 0.00 2200.00 8,800.00 1982.00 7 A AC Seeding, Fertilizing and Mulching 0.00 75,652.25 77.6552.25	Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price	RECLAMATI NORTHWEST	NO.	CONTRACTO	oks, INC.	CONSTRUCTION	Z.
1.5 AC Clearing and Grubbing 0.00 2000.00 3,000.00 6439.00 6439.00 11,611 CY Mine Closure 0.00 4.75 55,152.25 4.64 571.00 4 EA Adit Seal 0.00 250.00 1,000.00 48.00 4 EA Mounded Earth Road Barriers (Kelly Humps) 0.00 2200.00 8,800.00 1982.00 4 AC Seeding, Fertilizing and Mulching 0.00 75,652.25 78			LS	Mobilization, Bonding and Insurance	00.	00.00	00.0089	6,800.00	5222.00	5,222.00	10000.00	10,000.00
11,611 CY Mine Closure 6.00 4.75 55,152.25 4.64 55,152.25 4.64 55,152.25 4.64 571.00 571.00 571.00 571.00 571.00 571.00 571.00 48.00 48.00 48.00 48.00 48.00 48.00 1,000.00 48.00 1982.00 78 4 AC Seeding, Fertilizing and Mulching 0.00 2200.00 8,800.00 1982.00 78	2.	1.5	AC	Clearing and Grubbing		0.00	2000.00	3,000.00	6439.00	9,658.50	10500.00	15,750.00
2 EA Adit Seal Mounded Earth Road Barriers (Kelly Humps) 0.00 250.00 1,000.00 48.00 4 EA Humps) 0.00 2200.00 8,800.00 1982.00 4 AC Seeding, Fertilizing and Mulching 0.00 75,652.25 78	3.	11,611	CY	Mine Closure		0.00	4.75	55,152.25	4.64	53,875.04	3.52	40,870.72
4 EA Mounded Earth Road Barriers (Kelly Humps) 0.00 250.00 1,000.00 48.00 4 AC Seeding, Fertilizing and Mulching 0.00 2200.00 8,800.00 1982.00 7,78	4.	2	EA	Adit Seal		0.00	450.00	900.00	571.00	1,142.00	00.006	1,800.00
. 4 AC Seeding, Fertilizing and Mulching 0.00 2200.00 8,800.00 1982.00 75,652.25	5.	4	EA	Mounded Earth Road Barriers (Kelly Humps)		00:00	250.00	1,000.00	48.00	192.00	350.00	1,400.00
75,652.25	9	4	AC	Seeding, Fertilizing and Mulching		00.00	2200.00	8,800.00	1982.00	7,928.00	2500.00	10,000.00
						00:00		75,652.25		78,017.54		79,820.72



IIAZARDOUS MINE OPENING MAINTENANCE PROJECT YORK MINING DISTRICT - PIIASE II - LEWIS & CLARK COUNTIES, MONTANA

		0.00	0.00	0.00	0.00	00.00	0.00	0.00
		0.00	8.	0.00	00:	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	00.00	0.00
		0.00	8.	0.00	8.	0.00	0.00	
ROVEMENT		22,500.00	18,000.00	17,909.81	3,000.00	4,000.00	8,800.00	134,209.81
WESTERN IMPROVEMENT	; ;	22500.00	12000.00	6.71	1500.00	1000.00	2200.00	
ENGINEER'S ESTIMATE	Total Price	00.00	0.00	0.00	00.00	00.00	0.00	00:00
ENGINEER	Unit Price	8.						
BID TABULATIONS	Description	Mobilization, Bonding and Insurance	Clearing and Grubbing	Mine Closure	Adit Seal	Mounded Earth Road Barriers (Kelly Humps)	Seeding, Fertilizing and Mulching	
BID TAB	Unit	LS	AC	CY	EA	EA	AC	
	Estimated Ouantity	, -	1.5	11.611	2	4	4	
	Item		2.	3.	4	5.	6.	



APPENDIX C

CHANGE ORDERS AND WORK DIRECTIVE CHANGES
YORK MINING DISTRICT - PHASE II



CHANGE ORDER

						ORDER NO. 1
CT TITLE: York - Phase II						
•						
: Montana Dept. Of Environmenta	al Quality -	AMRB				
ACTOR: Scott Construction Co.	 	· · · · · · · · · · · · · · · · · ·				
wing changes from the Contract D	ocuments.					
DESCRIPTION OF CHANCES		COST	OF CHANC	GES		TOTAL
ESTIMATED QUANTITIES & UNITS	MATLS.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	COST
Mine Closure - Actual vs. Constructed Quantities (2,243 cy)					4.25	\$ <9,532.75
Seed, Fertilize, and Mulch - Actual vs. Constructed Quantities (1.01 ac.)	1				795.00	\$ <802.95
						\$ 507.03
TOTAL COST	- MATERIAL	S, LABOR,	EQUIPMENT	ſ & MISC.		\$ <9,828.67
						N//
					-	\$ <9,828.67
Contract Price Contract Price Adjusted by Previcities Change Order (+ or -)	ous Chang	e Order				\$ 57,139.25 \$ 57,139.25 \$ <9,828.67>
	ACT DATE: June 29, 1995 : Montana Dept. Of Environmental ACTOR: Scott Construction Co. Orders must be accompanied by a wing changes from the Contract Dineous. Show percent where application of CHANGES - ESTIMATED QUANTITIES & UNITS Mine Closure - Actual vs. Constructed Quantities (2,243 cy) Seed, Fertilize, and Mulch - Actual vs. Constructed Quantities (1.01 ac.) Allowance for 1% Contractors Tax paid TOTAL COST	ACT DATE: June 29, 1995 : Montana Dept. Of Environmental Quality - ACTOR: Scott Construction Co. Orders must be accompanied by an itemized wing changes from the Contract Documents. neous. Show percent where applicable.) DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS Mine Closure - Actual vs. Constructed Quantities (2,243 cy) Seed, Fertilize, and Mulch - Actual vs. Constructed Quantities (1.01 ac.) Allowance for 1% Contractors Tax paid TOTAL COST - MATERIAL GRAND Contract Price Contract Price Adjusted by Previous Change	ACT DATE: _June 29, 1995 :_ Montana Dept. Of Environmental Quality - AMRB ACTOR: _Scott Construction Co. Orders must be accompanied by an itemized cost breawing changes from the Contract Documents. (Show seneous. Show percent where applicable.) DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS Mine Closure - Actual vs. Constructed Quantities (2,243 cy) Seed, Fertilize, and Mulch - Actual vs. Constructed Quantities (1,01 ac.) Allowance for 1% Contractors Tax paid TOTAL COST - MATERIALS, LABOR, OVERHEAD GRAND TOTAL - Ti	ACT DATE:June 29, 1995 :Montana Dept. Of Environmental Quality - AMRB ACTOR:Scott Construction Co. Orders must be accompanied by an itemized cost breakdown. Y wing changes from the Contract Documents. (Show separate conceous. Show percent where applicable.) DESCRIPTION OF CHANGESESTIMATED	ACT DATE: _June 29, 1995 :Montana Dept. Of Environmental Quality - AMRB ACTOR: _Scott Construction Co. Orders must be accompanied by an itemized cost breakdown. You are him wing changes from the Contract Documents. (Show separate costs for meous. Show percent where applicable.) DESCRIPTION OF CHANGESESTIMATED QUANTITIES & UNITS MINE Closure - Actual vs. Constructed Quantities (2,243 cy) Seed, Fertilize, and Mulch - Actual vs. Constructed Quantities (1.01 ac.) Allowance for 1% Contractors Tax paid TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC. OVERHEAD & PROFIT @	ACT DATE: _June 29, 1995 :

\$ 47,310.58

New Contract Price including this Change Order

The completion date as set forth in the Contract Docu calendar days.	ments shall be (unchanged, increased, decreased) by <u>0</u>
The date for completion of all work will be N/A	·
Description and Justification for Change:	
3 & 6. Final reconciliation of estimated versus constru	cted quantities.
Tax witheld from Pay Request No. 1 (\$507.03) was allo	owed to be applied toward overpayment.
•	
	·
SURETY	'CONSENT
apply and extend to the Contract as thereby modified Surety further agree that on or after execution of this or Bonds is hereby DR reased by \$_9,828.67(1	or amended per this Change Order. The Principal and the consent, the penalty of the applicable Performance Bonds 00% of the Change Order amount) and the penalty of the penalty of the Change Order amount of the Change Order
COUNTERSIGNED BY MONTANA RESIDENT AGENT	SURETY
CORDON D. MOMANUS	UNITED PACIFIC INSURANCE COMPANY
FLYNN INSURANCE AGENCY BOX 711, GREAT FALLS, MI 59403	By: JOHN D. LEAF Seal ATTORNEY-IN-FACT
Recommended by:	Bouser 4/16/92.
Accepted by: Scott Condruction of	n Potte Scote Pres 4-5-96
Contractor	Date
Approved by: Use to Manager Owner	4-15-91. Date

APPENDIX D

APPROVED PAYMENT REQUESTS, CERTIFICATES OF COMPLETION AND ACCEPTANCE, AND AFFIDAVIT ON BEHALF OF CONTRACTOR YORK MINING DISTRICT - PHASE II



PAYMENT REQUEST NO. _1__

FROM <u>July 10, 1995</u> TO <u>August 17,1995</u>

PROJECT TITLE: York - Phase II		
LOCATION: Lewis & Clark County, MT	MONT A/E or DSL-AMRB: 94-007	
NAME OF CONTRACTOR: Scott Construc	ction, Inc.	
ADDRESS: P.O. Box 777, East Helena, MT	T 59635	
SUMMA	ARY OF PROJECT STATUS	
Amount of Original Contract Change Order No. Change Order No. Change Order No. Amount of Approved Change Order(s)	\$ <u>57,139.25</u> \$\$ \$\$	
TOTAL CONTRACT AMOUNT	\$ <u>57,139.25</u>	
Pay Request	t No. Amount of Request	
Total Contract Amount Completed to Date Less Retainage (_10_%) TOTAL AMOUNT EARNED TO DATE Less Previous Payments AMOUNT DUE THIS PAYMENT Less 1% Tax TOTAL DUE CONTRACTOR	\$_5,633.63 \$_50,702.67 \$_0 \$_50,702.67 \$_507.03 \$_50.195.64	
I certify that this claim is correct and just in all respetthat payment or credit has not been received.	pects and APPROVED BY:	
Contractor Contractor	Dept. of State Lands, Abandoned Mine Reclamation Owner	n Bureau
By Mitted (1911)	By	
RECOMMENDED BY:	Date	
Huntingdon Engineering & Environmental, Inc. Engineer By		

1 2 3	Mobilization	Quantity	Unit Price	Previous Quantity Requested	Current Quantity Completed	Quantity Completed To Date	Amount Completed to Date	Amount Due this Payment
1		1.0 LS	LS	0	1.0 .	1.0	2,500.00	2,500.00
3	Clearing & Grubbing	1.5 AC	475.00	o	1.5	1.5	712.50	712.50
٠	Mine Closure	11,611 CY	4.25	o	11,611	11,611	49,346.75	49,346.75
4	Adit Seal	2 EA	350.00	0	2	2	700.00	700.00
5	Kelly Humps	4 EA	175.00	o	4	4 .	700.00	700.00
6	Seed, Fert., Mulch	4 AC	795.00	0	2.99	2.99	2,377.05	2,377.05
	Materials on Site (Attach			\$ 0	\$		\$56,336.30	\$56,336.30
	Schedule)	As-					\$56,336.30	\$56,336.36

PAYMENT REQUEST NO. _2_

FROM <u>August 18, 1995</u> TO <u>March 6,1996</u>

PROJECT TITLE: York - Pr	nase II				
LOCATION: Lewis & Clar	k County, MT	MONT A/E or DSL-AM	RB: <u>94-007</u>		
NAME OF CONTRACTOR:	Scott Construction, Inc.				
ADDRESS: P.O. Box 777, E	ast Helena, MT 59635				
	SUMMARY OF P	ROJECT STATUS			
			A		
Amount of Original Contract Change Order No1\$<9,8	828.67>		\$ <u>57,139.25</u>		
Change Order No\$					
Change Order No\$ Amount of Approved Change Ord			\$_<9,828.67>		
TOTAL CONTRACT AMOUNT	(0)		\$ 47,310.58		
	Pay Request No.	Amount of Request			
	1	\$ 50,702.67			
base of an					
Total Contract Amount Cor	mpleted to Date		\$ <u>47.310.58</u>		
Less Retainage (<u>12</u> %) TÖTAL AMOUNT EARNED	TO DATE		\$ <u>5,633.63</u> \$ <u>41,676.95</u>		
Less Previous Payments AMOUNT DUE THIS PAYM	IENIT		\$ <u>50,702.67</u> \$ <u><9,025.72</u> >		
Less 1% Tax	ICIVI		\$ N/A		
TOTAL DUE CONTRACTO	PR		\$_<3.392.09>		
I certify that this claim is correct a	and just in all respects and	APPROVED BY:			
that payment or credit has not be		AFFROVED DI.			
Scott Const	nection sino		doned Mine Reclamation Bureau		
Contract	9 _		Owner 1		
By Falles	ary the	By Con RC	By Via R Challersen		
Date <u>9-5-96</u>		Date 4-18-4	76		
RECOMMENDED BY:					
Maxim Technologies, Inc. Enginee	or				
By O Tamah	R R				
1/4 6					
Date					

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1	Mobilization	1.0 LS	LS	0	1.0	1.0	2,500.00	2,500.00
2	Clearing & Grubbing	1.5 AC	475.00	0	1.5	1.5	712.50	712.50
3	Mine Closure	11,611 CY	4.25	0	11,611	11,611	49,346.75	49,346.75
4	Adit Seal	2 EA	350.00	0	2	2	700.00	700.00
5	Kelly Humps	4 EA	175.00	0	4	4	700.00	700.00
6	Seed, Fert., Mulch	4 AC	795.00	0	2.99	2.99	2,377.05	2,377.05
	Change Order No. 1						<9,828.67>	<9,828.67>
	Materials on Site (Attach Schedule)			\$ 0	\$		\$47,310.58	\$47,310.58
TC	OTAL					E 3	\$47,310.58	\$47,310.58

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: DEQ - Abandoned Mine Reclamation Bureau	OWNER
PROJECT TITLE: HMO Project York Mining District	t - Phase II
MONT A/E or DEQ-AMRB: <u>94-005</u>	SUBSTANTIAL COMPLETION DATE:8/18/95
CONTRACT DATE: 6/29/95	DEQ INSPECTION DATE: 8/18/95
LOCATION: York Mining District	ENGINEER: Jeremiah B. Bowser, P.E.
PROJECT OR PART SHALL INCLUDE:	PERFORMANCE BOND NO: <u>U2577295</u>
	DATE OF BOND: June 20, 1995
	SURETY: United Pacific Insurance
CONTRACTOR: Scott Construction	MONTANA AGENT: Flynn Agency
ADDRESS: P.O. Box 777	
East Helena, MT 59635	ADDRESS: P.O. Box 711
TELEPHONE NO: (406)227-5740	Great Falls, MT 59403
	authorized representatives of the Owner, Contractor, and Engineer, ove) is hereby declared to be substantially completed on the above
DEFINITION OF SUB	STANTIAL COMPLETION
	f a project is the date when the construction is sufficiently completed, change orders agreed to by the parties, so the Owner can occupy or which it was intended.
A tentative list of items to be completed is appended hereto. This does not alter the responsibility of the Contractor to complete all	s list may not be exhaustive, and the failure to include an item on it
ENGINEER:	Hunton dan Engineera & Environ
•	By Authorized Representative Date
The Contractor accepts the above Certificate of Substantial Complist within the time indicated.	pletion and agrees to complete and correct the items on the tentative
CONTRACTOR:	Scott Construction Inc
	By Authorized Representative Date
	substantially complete and will assume full possession of the project e.). The responsibility for heat, utilities, security, and insurance under pelow.
OWNER:	La Rollinge
	By Authorized Representative Date
Remarks: (Attach additional sheet, if necessary)	
	RECEIVED

OCT 04 1995 Rev. 3/91



CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): A	bondoned Mine Reclam. Bure	au DATE:April 15th, 1996
Dept. of	Envir. Quality	PROJECT TITLE: York - Phase II
1625 11	th Ave	
Helena,	MT 59601	MONT A/E or DSL-AMRB: 94-007
ATTN: Engineer	Jerry Bowser	CONTRACT DATE: June 15th, 1995
FROM:	Maxim Techn	ology
	(Firm or	r Corporation)
	rtify that I, Patti Scott	
	T CONSTRUCTION, INC.	, working in the capacity of
		e been properly authorized by said firm or corporation to
	ng statements pertaining to the sul	
describe		d do hereby certify, that the work of the contract materials used and installed in every particular, in Contract Plans and Specifications.
	ntract work is now complete in a tial completion inspection.	all parts and requirements and ready for your
accepta	stand that neither the determination nce thereof by the Owner shall open ns of the guarantee provisions of th	of the Engineer that the work is complete nor the rate as a bar to claim against the Contractor under ne Contract Documents.
	CONTRACTO	OR: SCOTT CONSTRUCTION, INC
		By: President Title
		President Title
Distribution:	 Project Manager Field Office File 	TECTIVED
		APR 16 1996
	-	MAXIM TECHNOLOGIES HELENALIT



AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF MONTANA	MONT A/E or DSL-AMRB: <u>94-007</u>
COUNTY OF LEWIS & CLARK	: ss _)
DATE: April 15th, 1996	_
strict conformance with the terms and condition bept. of Env. Quality/Abond.Mine the Contractor, dated June 15th, 1995 for further declare that all bills for materials, supplies furnished by the above-named Contractor and uppaid, and there are no unpaid claims or der	hat all work has been performed and materials supplied in ons of the corresponding contract documents between Owner, and Scott Construction, Inc., the or the York Phase II Project, Mont A/E or DSL-AMRB 94-007, and and an utilities, and for all other things furnished or caused to be sed in the execution of the above Contract have been fully mands of State Agencies, subcontractors, materialmen, or arising out of work done or ordered to be done by said
Contractor releases and forever discharges the Contract of said Contract and authorized changes	made and all payments made for authorized changes, the Owner from any and all obligations and liabilities arising by between the parties hereto, either verbal or in writing, and nd character whatsoever against the Owner, arising out of horized changes.
This statement is made for the purpose of inductive Contract, relying on the truth and statement	cing the Owner to make Final Payment under the terms of as contained therein.
Dated this 15th day of April , 19	9 <mark>96</mark> , at ^E ast Helena , Montana.
CONTRACTO	R: SCOTT CONSTRUCTION, INC.
Subscribed and sworn to before me this 5	By: Fall College Title: President day of Apvil , 1996.
	Delstie Freutton
(SEAL)	Notary Public for the State of Montana Residing at Helina, mt My commission expires 3/25/2000



APPENDIX E

PROJECT RECONCILIATION
YORK MINING DISTRICT - PHASE II



TABLE 6-1
Project Reconciliation
York Phase II

Site No.	Mine Opening No.	Specified Task	Area Disturbed/Seeded	Estimated Quantity	Constructed Quantity	Total Cost (Backfill)
1	P-1	Shaft Closure	1,224 SF	66 CY	66 CY	\$ 280.5
4	A-1	Adit Closure	100 SF	2 CY	2 CY	\$ 8.5
12	P-1	Shaft Closure	429 SF	12 CY	12 CY	\$ 51.0
16a S-1	S-1	Shaft Closure		32 CY	32 CY	\$ 136.0
	A-1	Adit Closure	1,722 SF	5 CY	5 CY	\$ 21.2
22	A-1	Adit Closure		5 CY	5 CY	\$ 21.2
	P- 2	Adit Closure		111 CY	111 CY	\$ 471.7
	T-1	Adit Closure		75 CY	15 CY	\$ 318.7
	T-2	Adit Closure		10 CY	1€ CY	\$ 42.5
	P-1	Shaft Closure		13 CY	13 CY	\$ 55.2
	P-2	Shaft Closure	3,808 SF	16 CY	18 CY	\$ 68.0
26	A-1	Adit Closure	510 SF	з СҮ	9 CY	\$ 38.2
29	A-1	Shaft Closure		36 CY	36 CY	\$ 153.0
	P-2	Shaft Closure	832 SF	45 CY	45 CY	\$ 191.2
30	P-1	Shaft Closure	2,520 SF	310 CY	310 CY	\$ 1,317.5
31	P-1	Shaft Closure		18 CY	15 CY	\$ 63.7
	P-2	Shaft Closure		225 CY	225 CY	\$ 956.2
	P-3	Shaft Closure		18 CY	11 CY	\$ 187.0
	P-4	Shaft Closure		20 CY	20 CY	\$ 85.0
	P-5	Shaft Closure	4,504 SF	18 CY	1∜ CY	\$ 76.5
36	P-1	Shaft Closure		5 CY	5 CY	\$ 21.2
	P-2	Shaft Closure		3 CY	9 CY	\$ 12.7
	A-3	Shaft Closure		28 CY	20 CY	\$ 119.0
	P-4	Shaft Closure		22 CY	22 CY	\$ 93.5
	T-1	Adit Closure		33 CY	33 CY	\$ 140.2
	T-2	Adit Closure	2,712 SF	18 CY	18 CY	\$ 76.5
37	P-2	Adit Closure		4 CY	4 CY	\$ 17.0
	A-3	Adit Closure		10 CY	11 CY	\$ 46.7
	T-1	Adit Closure		222 CY	222 CY	\$ 943.5
	A-4	Adit Closure		5 CY	5 CY	\$ 21.2
	A-6	Adit Closure	6,479 SF	13 CY	13 CY	\$ 55.2



TABLE 6-1 Project Reconciliation York Phase II

Site No.	Mine Opening No.	Specified Task	Area Disturbed/Seeded	Estimated Quantity	Constructed Quantity	Total Cost (Backfill)
40	A-8	Adit Closure		64 CY	64 CY	\$ 272.00
	A-9	Adit Closure		4 CY	7 CY	\$ 29.75
	P-14	Shaft Closure	1,596 SF	15 CY	15 CY	\$ 63.75
44	P-1	Shaft Closure		22 CY	20 CY	\$ 85.00
	A-8	Shaft Closure		33 CY	33 CY	\$ 140.25
	P-3	Shaft Closure		2 CY	2 CY	\$ 8.50
	P-4	Shaft Closure		5 CY	5 CY	\$ 21.25
	P-5	Shaft Closure		13 CY	18 CY	\$ 76.50
	P-6	Shaft Closure	2,801 SF	35 CY	35 CY	\$ 148.75
48	P-1	Shaft Closure	980 SF	35 CY	35 CY	\$ 148.75
49	P-1	Shaft Closure		79 CY	83 CY	\$ 352.75
	P-2	Shaft Closure	910 SF	8 CY	a CY	\$ 17.00
50	S-1	Shaft Closure	2,580 SF	178 CY	178 CY	\$ 756.50
51	A-1	Shaft Closure	-	8 CY	8 CY	\$ 34.00
	P-2	Shaft Closure	702 SF	79 CY	40 CY	\$ 170.00
52a	P-1	Shaft Closure	1,144 SF	36 CY	35 CY	\$ 153.00
53	P-1	Shaft Closure		22 CY	22 CY	\$ 93.50
	P-2	Shaft Closure		4 CY	4 CY	\$ 17.00
	P-3	Shaft Closure	2,125 SF	17 CY	17 CY	\$ 72.25
54	P-1	Shaft Closure	1,050 SF	22 CY	22 CY	\$ 93.50
60	A-1	Adit Closure	\$80 SF	64 CY	64 CY	\$ 272.00
56	P-1	Shaft Closure	1,418 SF	79 CY	40 CY	\$ 335.75
57	A-1	Adit Closure	1,100 SF	33 CY	33 CY	\$ 140.25
59a	P-1	Shaft Closure	960 SF	17 CY	17 CY	\$ 72.25
60	S-1	Shaft Closure	1,440 SF	165 CY	165 CY	\$ 701.25
60a	P-1	Shaft Closure	1,050 SF	22 CY	22 CY	\$ 93.50
60b	P-1	Shaft Closure		53 CY	53 CY	\$ 225.25
	P-2	Shaft Closure	1,176 SF	32 CY	32 CY	\$ 136.00
61a	P-2	Shaft Closure	510 SF	4 CY	4 CY	\$ 17.00
61b	P-1	Shaft Closure	240 SF	4 CY	4 CY	\$ 17.00
61c	P-1	Shaft Closure	370 SF	4 CY	4 CY	\$ 17.00



TABLE 6-1 Project Reconciliation York Phase II

Site No.	Mine Opening No.	Specified Task	Area Disturbed/Seeded	Estimated Quantity	Constructed Quantity	Total Cost (Backfill)
62a	S-1	Shaft Closure	1,998 SF	370 CY	370 CY	\$ 1,572.50
62c	P-1	Shaft Closure	1,008 SF	4 CY	4 CY	\$ 17.00
63	P-1	Shaft Closure	264 SF	7 CY	7 CY	\$ 29.75
64	A-1	Adit Closure	240 SF	10 CY	10 CY	\$ 42.50
66	A-1	Adit Closure	976 SF	42 CY	42 CY	\$ 178.50
63	P-1	Shaft Closure	864 SF	6 CY	s CY	\$ 25.50
69	P-1	Shaft Closure	561 SF	4 CY	4 CY	\$ 17.00
70	A-1	Shaft Closure	51 SF	2 CY	2 CY	\$ 8.50
71	A-1	Adit Closure	648 SF	12 CY	12 CY	\$ 51.00
74	A-1	Adit Closure		16 CY	16 CY	\$ 68.00
	A-2	Adit Closure		\$ CY	9 CY	\$ 38.25
	A-3	Adit Closure		280 CY	280 CY	\$ 1,190.00
	A-4	Adit Closure	3,523 SF	58 CY	58 CY	\$ 246.50
80	A-1	Adit Closure		15 CY	15 CY	\$ 63.75
	A-2	Adit Closure	789 SF	8 CY	a CY	\$ 34.00
100	P-1	Shaft Closure		5 CY	5 CY	\$ 21.25
	A-2	Shaft Closure	1,280 SF	16 CY	15 CY	\$ 63.75
Brown's Gulch Area	1 thru 10	Shaft Closure	70,515 SF	8,190 CY	5,947 CY	\$ 25,274.75
	Total Bad	kfill		11,611 CY	9,368 CY	\$ 39,814.00
•	Total Disturbed/S	Seeded Area	130,244 SF	4 AC	2.99 AC	\$ 2,377.05
Brown's Gulch	11	Adit Seal	Included	1 EA	1 EA	\$ 350.00
	12	Adit Seal	Included	1 EA	1 EA	\$ 350.00
Are	ea Wide	Kelly Humps	Included	4 EA	4 EA	\$ 700.00
Clearing & Grubbing Mobilization Tax Allowance		Clearing & Grubbing	Included	1.5 AC	1.5 AC	\$ 712.50
		Mobilization	N/A	1 LS	1 LS	\$ 2,500.00
		N/A	N/A	N/A	\$ 507.03	
	PROJECT	TOTAL				\$ 47,310.58



APPENDIX F

PHOTOGRAPHIC RECORD
YORK MINING DISTRICT - PHASE II

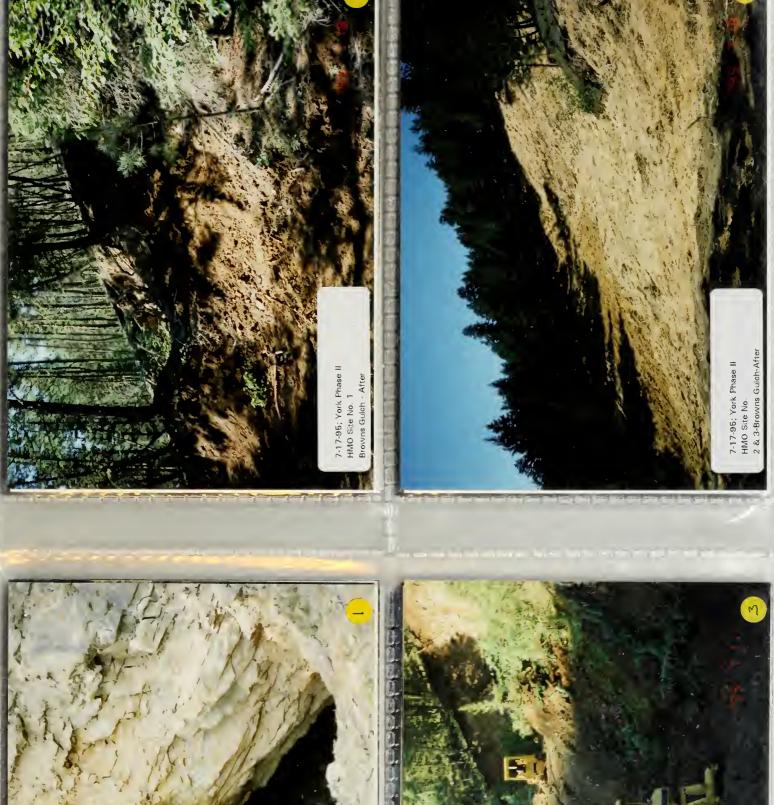


YORK PHASE II

PHOTO LOG SUMMARY

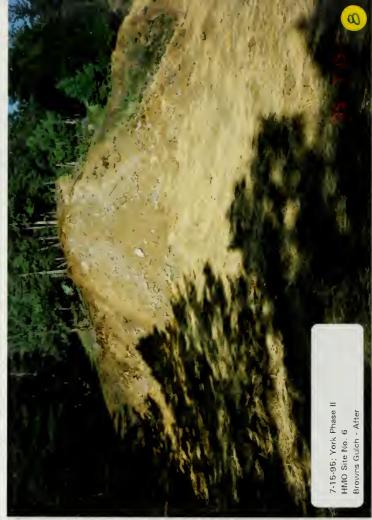
РНОТО NO.	HMO SITE
1	Browns Gulch No. 1 - Before Backfill
2	Browns Gulch No. 1 - After Backfill
3	Browns Gulch No. 2, 3, and 4 - During Backfill
4	Browns Gulch No. 2 and 3 - After Backfill
5	Browns Gulch No. 3 - Before Backfill
6	Browns Gulch No. 3 - During Backfill
7	Browns Gulch No. 4 - Before Backfill
8	Browns Gulch No. 6 - After Backfill
9	Browns Gulch No. 7 - After Backfill
10	Browns Gulch No. 9 - After Backfill
11	Browns Gulch No. 10 - During Backfill
12	Browns Gulch No. 11 - During Backfill
13	Browns Gulch No. 11 - After Backfill
14	Browns Gulch No. 12 - After Backfill
15	Browns Gulch No. 13 and 14 - After Backfill
16	No. 1, P-1 - After Backfill
17	No. 1, Kelly Hump - After Excavation
18	No. 10. Kelly Hump - After Excavation
19	No. 16A. S-2 - Before Backfill
20	No. 16A. S-2 - After Backfill
21	No. 22. A-2 - Before Backfill
22	No. 29. P-1 - Before Backfill
23	No. 30. P-1 - Before Backfill
24	No. 37, A-6 - After Backfill
25	No. 44. P-1 through P-6 - After Backfill
26	No. 50, S-1 - After Backfill
27	No. 51, A-1 - Before Backfill
28	No. 52a, A-1 - Before Backfill
29	No. 55. A-1 - After Backfill
30	No. 56. P-1 - After Backfill
31	No. 61a, P-2 - After Backfill
32	No. 61c, P-1 - After Backfill
33	No. 64, A-1 - After Backfill
34	No. 66. A-1 - After Backfill
35	No. 69. P-1 - After Backfill
36	No. 74. A-2 and A-4 - After Backfill
37	No. Kelly Hump - After Excavation
38	No. 80, A-1 - After Backfill





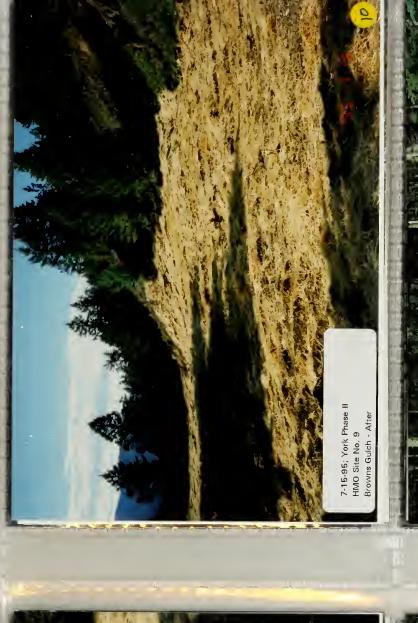


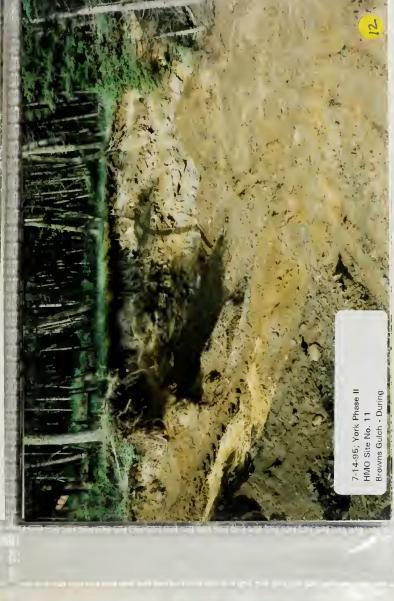




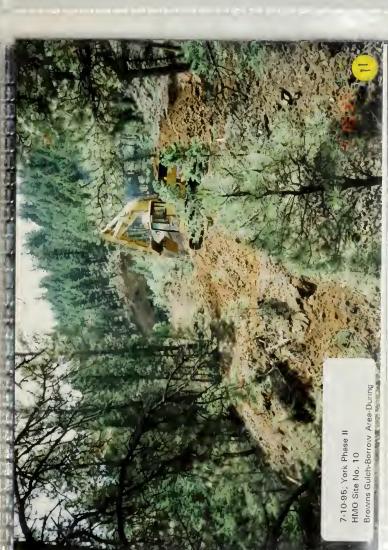


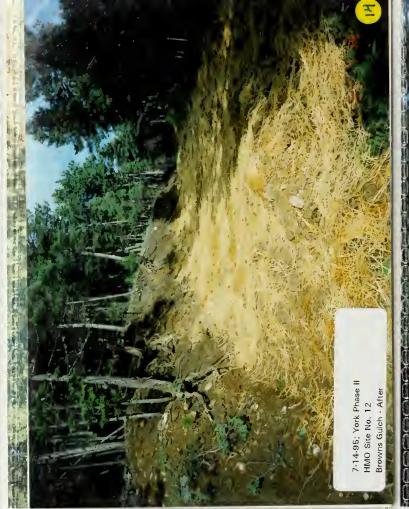


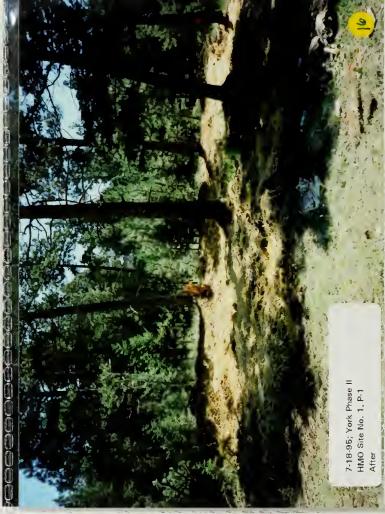




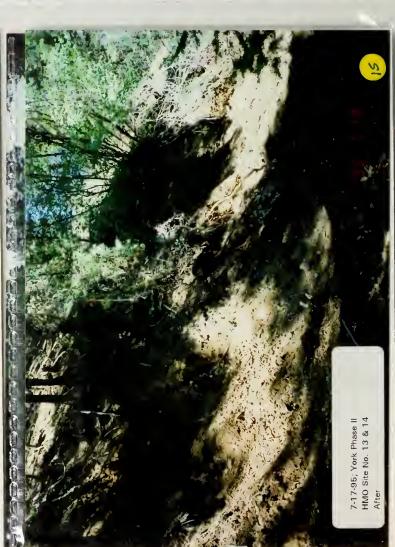


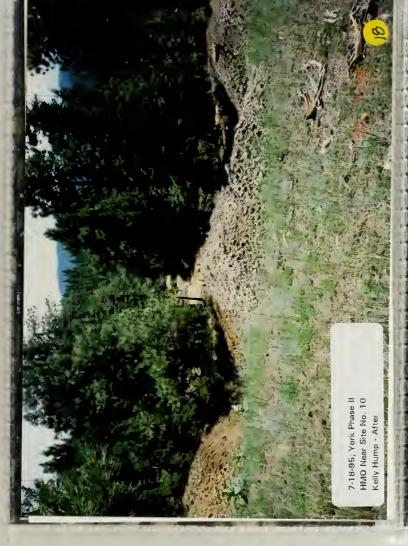












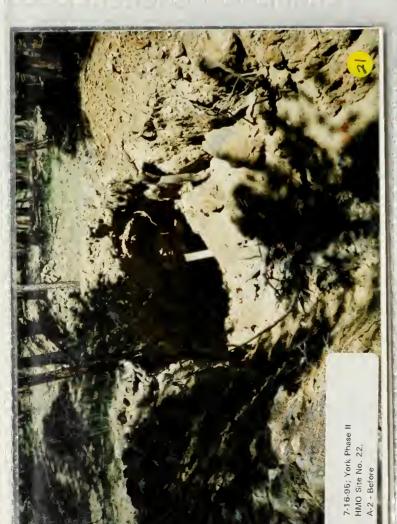


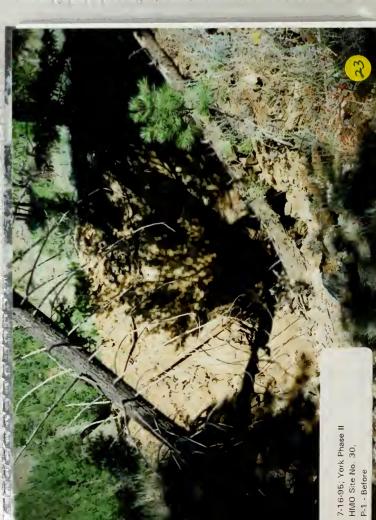


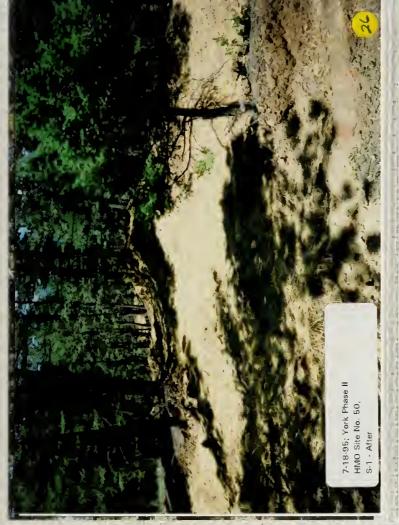










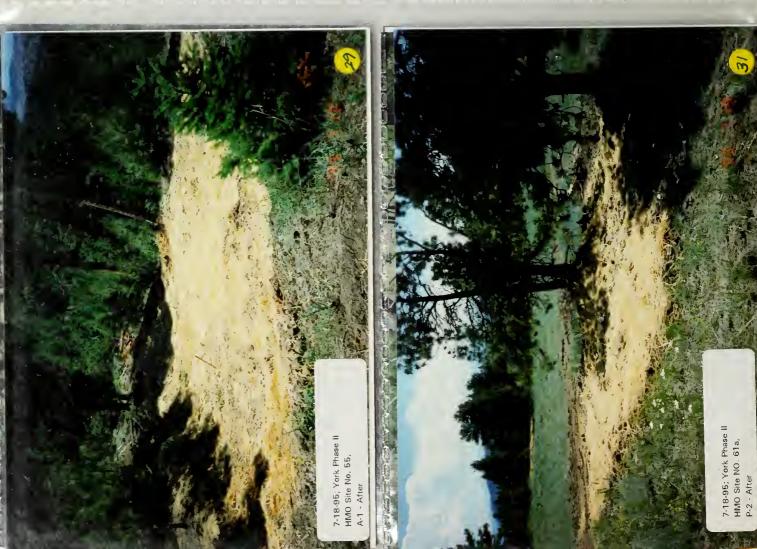


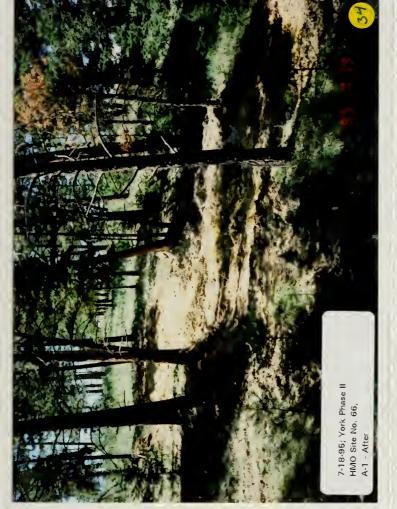




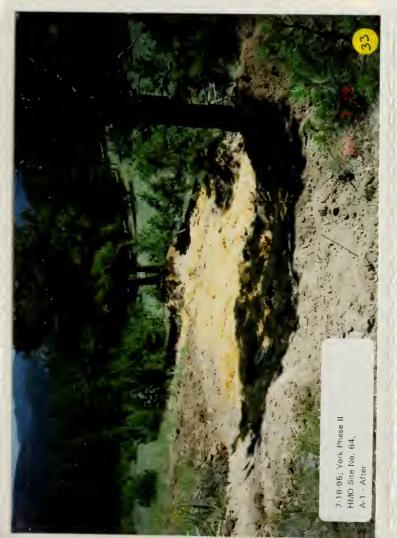


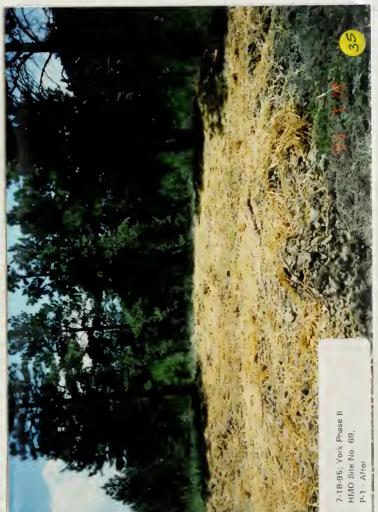


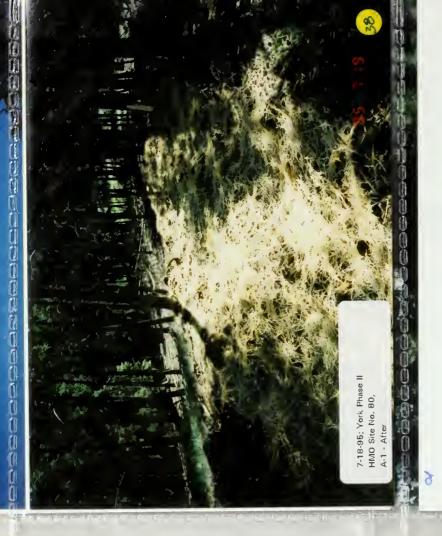












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